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IS 10716 (1983): Rules for representation of springs on technical drawings [PGD 24: Drawings]

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Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

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UDC 744.4 : 621-272

IS : 10716 - 1983
ISO 2162 - 1973

Indian Standard

RULES FOR REPRESENTATION OF SPRINGS ON TECHNICAL DRAWINGS

(ISO Title : Technical Drawings — Representation of Springs)

Drawings Sectional Committee, EDC 20; Drawing Subcommittee, EDC 20 : 1 [Ref : Doc : EDC 20 (4081)]

National Foreword

This Indian Standard, which is identical with ISO 2162-1973 'Technical Drawings — Representation of springs', issued by the International Organization for Standardization (ISO), was adopted by the Indian Standards Institution on recommendation of the Drawings Sectional Committee and approved by the Engineering Division Council.

IS : 696-1972 'Code of practice for general engineering drawings (*second revision*)' was originally issued in 1955 and was revised in 1960 as a consequence of changeover to metric system of weights and measures. The second revision of IS : 696 was carried out in 1972 to bring the standard in line with the recommendations published by the Technical Committee TC 10 — Technical Drawings of the International Organization for Standardization.

ISO has published number of standards on various subjects covered in IS : 696-1972. This standard is an adoption of ISO 2162-1973 on the subject superseding the relevant subject matter covered under Table 3.2 of IS : 696-1972.

Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

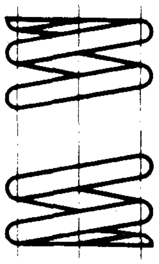
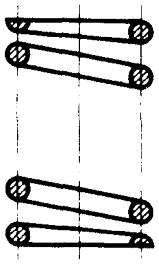
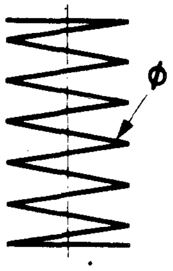
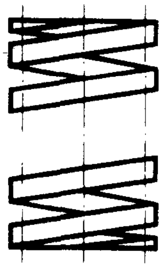
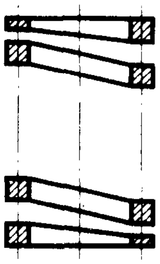
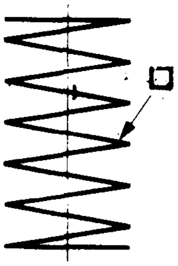
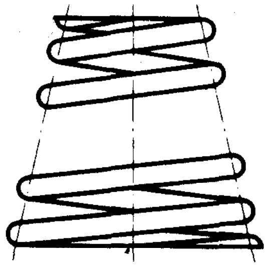
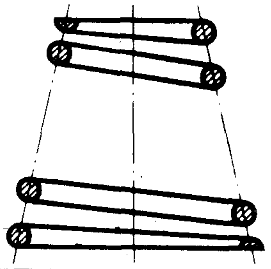
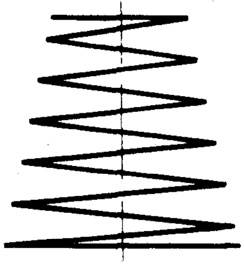
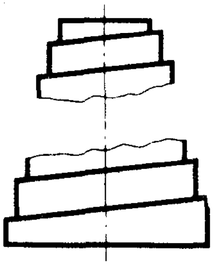
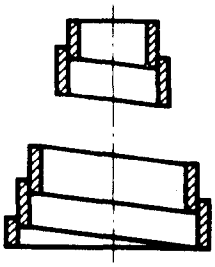
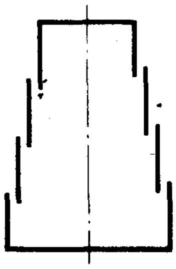
Adopted 16 August 1983	© June 1984, ISI	Gr 3

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies, by means of examples, the rules for representation of springs on technical drawings.

2 COMPRESSION SPRINGS

Title	Representation		
	view	section	simplified[1]
2.1 Cylindrical helical compression spring of wire of circular cross-section			
2.2 Cylindrical helical compression spring of wire of rectangular cross-section			
2.3 Conical helical compression spring of wire of circular cross-section			
2.4 Conical helical compression spring of wire of rectangular cross-section (volute spring)			

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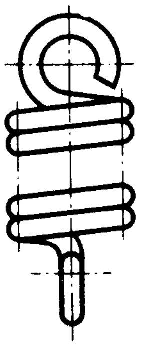
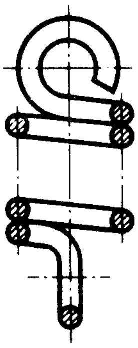
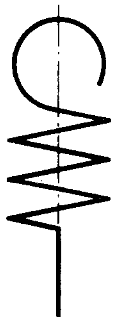
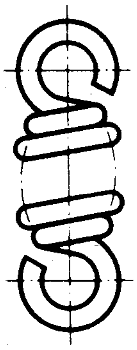
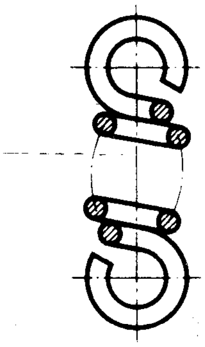
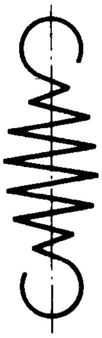
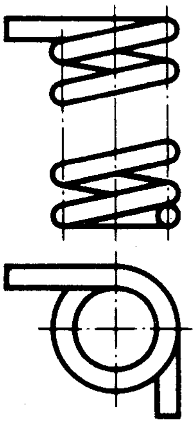
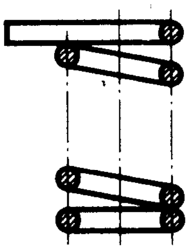
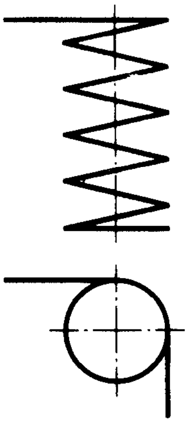
[1] If necessary, indicate «Wound left (or right) hand».

If necessary, the cross-section of the spring material may be indicated in words or by a symbol (see 2.1 and 2.2).

3 TENSION SPRINGS

Title	Representation		
	view	section	simplified[1]
3.1 Cylindrical helical tension spring of wire of circular cross-section			
3.2 Double-conical helical tension spring of circular cross-section			

4 TORSION SPRINGS

Title	Representation		
	view	section	simplified[1]
4.1 Cylindrical helical torsion spring of wire of circular cross-section (Wound right hand)			

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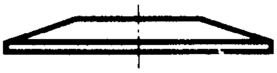
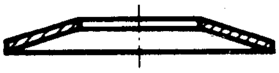
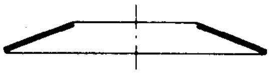
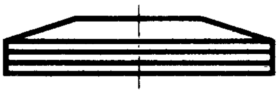
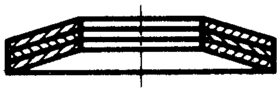
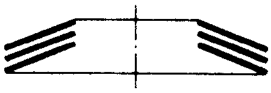
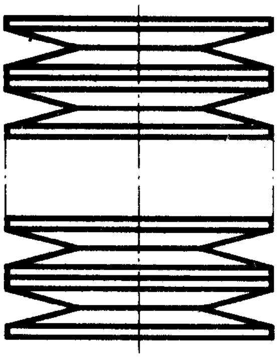
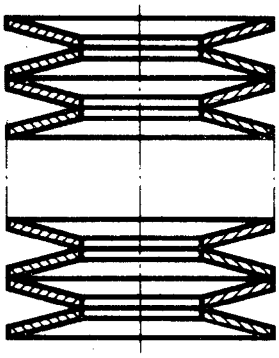
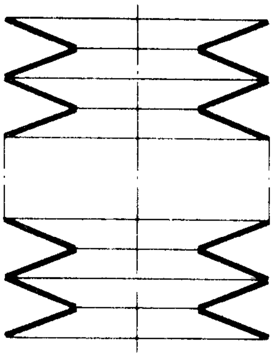
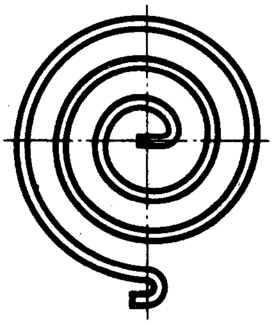
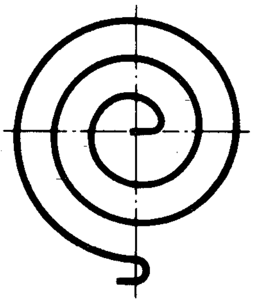
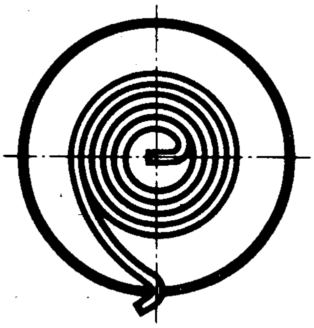
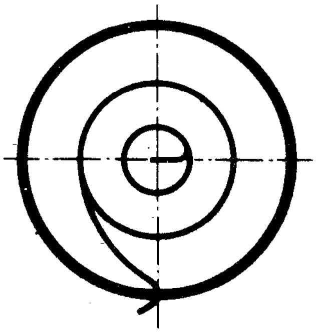
1) If necessary, indicate «Wound left (or right) hand».
If necessary, the cross-section of the spring material may be indicated in words or by a symbol (see 2.1 and 2.2).

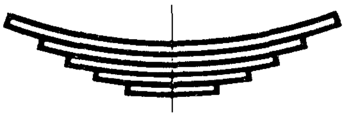
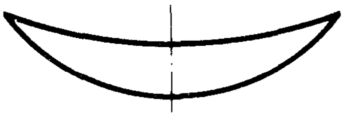
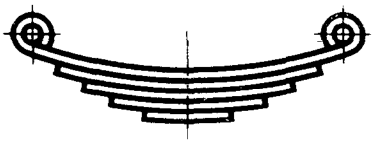
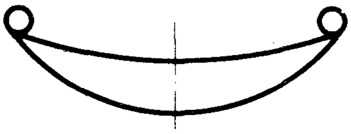
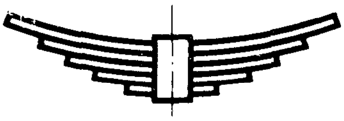
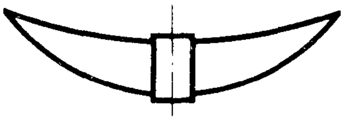
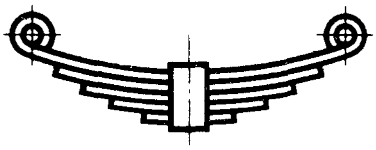
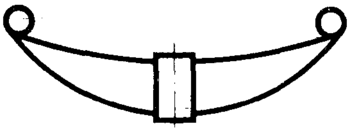
5 CUP SPRINGS

Title	Representation		
	view	section	simplified
5.1 Cup spring			
5.2 Multi-cup spring (cups placed in the same direction)			
5.3 Multi-cup spring (successive cups alternating in direction) direction)			

6 SPIRAL SPRINGS

Title	Representation	
	view	simplified
6.1 Spiral spring		
6.2 Spiral spring (the spring is wound by rotating the box)		

7 LEAF SPRINGS

Title	Representation	
	view	simplified
7.1 Semi-elliptic leaf spring (multi-elliptic spring shown)		
7.2 Semi-elliptic leaf spring with eyelets		
7.3 Semi-elliptic leaf spring with centre band		
7.4 Semi-elliptic leaf spring with eyelets and centre band		

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